

Outdoor LED modules

Product description

- Long life-time
- Compliance and approval: CE
- Re-workable push-in terminals enabling easy connection
- Small colour tolerance (MacAdam5)
- Tolerance range for optical and electrical data $\pm 10\%$
- Min. driving current 200mA
- Available CCT from 2200K to 6500K and CRI 80, 90 and 95
- Compatible with standard 2x2 lenses (e.g. LEDiL Strada 2X2)



RecLED 173x151mm

| Product name | Ordering code | Colour temp. [K] | If nominal [mA] | Luminous flux @ If nom & Tp Φ [lm] | Voltage @ If nom & Tp Vf [V] | Power @ If nom & Tp P [W] | Efficiency @ If nom & Tp [lm/W] | Max. current If [mA] |
|--|----------------|------------------|-----------------|---|------------------------------|---------------------------|---------------------------------|----------------------|
| RecLED 173x151mm 8700lm 730 6x6 Opt G1 | 1010 117 65646 | 3000 | 520 | 8080 | 99 | 51 | 158 | 1500 |
| RecLED 173x151mm 8700lm 740 6x6 Opt G1 | 1010 117 65746 | 4000 | 520 | 8610 | 99 | 51 | 168 | 1500 |
| RecLED 173x151mm 8700lm 765 6x6 Opt G1 | 1010 117 65846 | 6500 | 520 | 8610 | 99 | 51 | 168 | 1500 |

RecLED 224x202mm

| Product name | Ordering code | Colour temp. [K] | If nominal [mA] | Luminous flux @ If nom & Tp Φ [lm] | Voltage @ If nom & Tp Vf [V] | Power @ If nom & Tp P [W] | Efficiency @ If nom & Tp [lm/W] | Max. current If [mA] |
|---|----------------|------------------|-----------------|---|------------------------------|---------------------------|---------------------------------|----------------------|
| RecLED 224x202mm 15200lm 730 8x8 Opt G1 | 1010 117 65946 | 3000 | 520 | 14364 | 175 | 91 | 158 | 1500 |
| RecLED 224x202mm 15200lm 740 8x8 Opt G1 | 1010 117 66046 | 4000 | 520 | 15306 | 175 | 91 | 168 | 1500 |
| RecLED 224x202mm 15200lm 765 8x8 Opt G1 | 1010 117 66146 | 6500 | 520 | 15306 | 175 | 91 | 168 | 1500 |

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Temperatures

| Specification item | | |
|--------------------|------|---|
| Tp | 75°C | Temperature related to the performance parameters of the LED modules |
| Tp rated | 75°C | Maximum operating temperature to which the rated performance characteristics are declared |
| Tc | 95°C | Highest permissible value for safe operation |

Electrical & Optical data

| Specification item | Unit | Value |
|----------------------------------|--------|----------------------------|
| Classification acc. to IEC 62031 | [V] | built-in |
| Energy Efficiency Class | | A++ |
| Working Voltage | [Vdc] | 420 |
| Beam angle | [deg] | 120 |
| Initial color consistency | [step] | 3 |
| Initial color coordinates | | Acc. to CIE 1931 |
| Photobiological safety | | RG2 (RG1 @ >0,5m distance) |

Certificates & standards

| Specification item | Compliant |
|------------------------|--------------|
| ENEC | No |
| CE | Yes |
| RoHS | Yes |
| REACH | Yes |
| Zhaga | Yes |
| IP rating | No IP rating |
| Overheating protection | No |

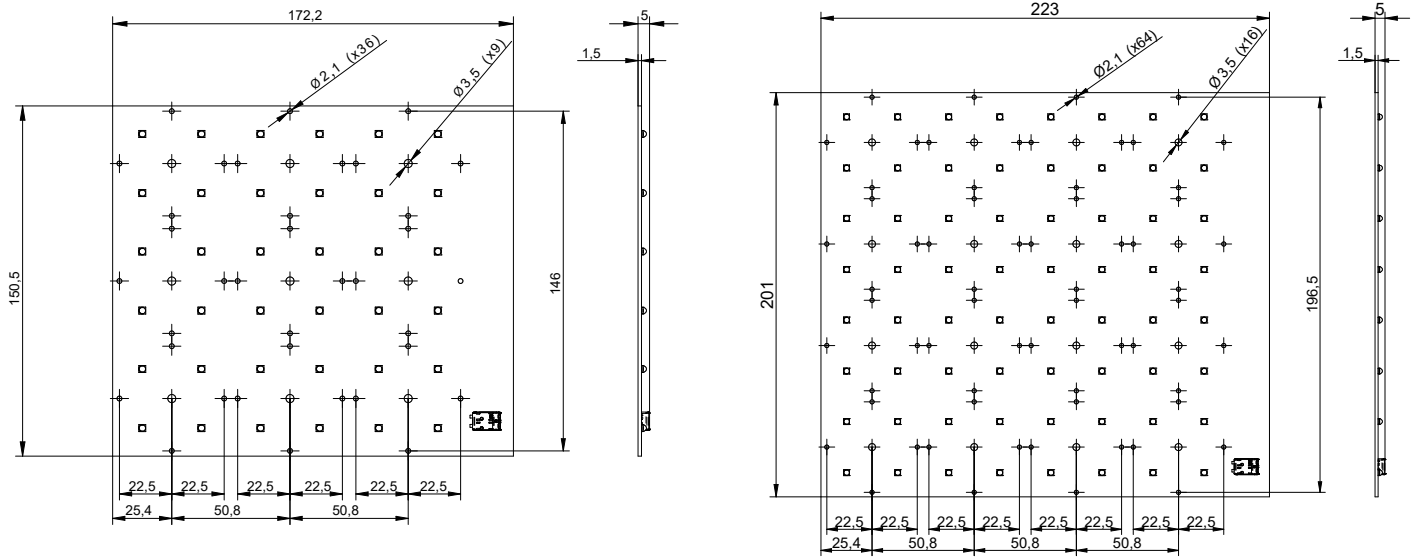
Lumen maintenance

| Forward current | Tp temperature | L 70 | | L80 | | L90 | |
|-----------------|----------------|----------|----------|----------|----------|----------|----------|
| | | B50 | B10 | B50 | B10 | B50 | B10 |
| If nom | 75°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 80°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 85°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 90°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 95°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| If max | 75°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 80°C | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 | >100,000 |
| | 85°C | >100,000 | >100,000 | >100,000 | >100,000 | 82,000 | 77,000 |
| | 90°C | >100,000 | >100,000 | >100,000 | >100,000 | 58,000 | 54,000 |
| | 95°C | >100,000 | >100,000 | >100,000 | >100,000 | 41,000 | 38,000 |

simulation based on LM80 LED data

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Dimensions



Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm

Connections

